



## SEQUENCE LISTING

&lt;110&gt; Protein Design Labs

&lt;120&gt; METHOD OF TREATING CANCER WITH ANTI-PLEIOTROPHIN ANTIBODIES

&lt;130&gt; 05882.0114.NPUS01

&lt;160&gt; 15

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

&lt;211&gt; 168

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 1

Met Gln Ala Gln Gln Tyr Gln Gln Gln Arg Arg Lys Phe Ala Ala Ala  
1 5 10 15

Phe Leu Ala Phe Ile Phe Ile Leu Ala Ala Val Asp Thr Ala Glu Ala  
20 25 30

Gly Lys Lys Glu Lys Pro Glu Lys Lys Val Lys Lys Ser Asp Cys Gly  
35 40 45

Glu Trp Gln Trp Ser Val Cys Val Pro Thr Ser Gly Asp Cys Gly Leu  
50 55 60

Gly Thr Arg Glu Gly Thr Arg Thr Gly Ala Glu Cys Lys Gln Thr Met  
65 70 75 80

Lys Thr Gln Arg Cys Lys Ile Pro Cys Asn Trp Lys Lys Gln Phe Gly  
85 90 95

Ala Glu Cys Lys Tyr Gln Phe Gln Ala Trp Gly Glu Cys Asp Leu Asn  
100 105 110

Thr Ala Leu Lys Thr Arg Thr Gly Ser Leu Lys Arg Ala Leu His Asn  
115 120 125

Ala Glu Cys Gln Lys Thr Val Thr Ile Ser Lys Pro Cys Gly Lys Leu  
130 135 140

Thr Lys Pro Lys Pro Gln Ala Glu Ser Lys Lys Lys Lys Lys Glu Gly  
145 150 155 160

Lys Lys Gln Glu Lys Met Leu Asp

165

<210> 2  
<211> 168  
<212> PRT  
<213> Mus Musculus

<400> 2

Met Ser Ser Gln Gln Tyr Gln Gln Gln Arg Arg Lys Phe Ala Ala Ala  
1 5 10 15

Phe Leu Ala Leu Ile Phe Ile Leu Ala Ala Val Asp Thr Ala Glu Ala  
20 25 30

Gly Lys Lys Glu Lys Pro Glu Lys Lys Val Lys Lys Ser Asp Cys Gly  
35 40 45

Glu Trp Gln Trp Ser Val Cys Val Pro Thr Ser Gly Asp Cys Gly Leu  
50 55 60

Gly Thr Arg Glu Gly Thr Arg Thr Gly Ala Glu Cys Lys Gln Thr Met  
65 70 75 80

Lys Thr Gln Arg Cys Lys Ile Pro Cys Asn Trp Lys Lys Gln Phe Gly  
85 90 95

Ala Glu Cys Lys Tyr Gln Phe Gln Ala Trp Gly Glu Cys Asp Leu Asn  
100 105 110

Thr Ala Leu Lys Thr Arg Thr Gly Ser Leu Lys Arg Ala Leu His Asn  
115 120 125

Ala Asp Cys Gln Lys Thr Val Thr Ile Ser Lys Pro Cys Gly Lys Leu  
130 135 140

Thr Lys Pro Lys Pro Gln Ala Glu Ser Lys Lys Lys Lys Lys Glu Gly  
145 150 155 160

Lys Lys Gln Glu Lys Met Leu Asp  
165

<210> 3  
<211> 120  
<212> PRT  
<213> Homo Sapiens

<400> 3

Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Ile Ser Cys Gln Ala Ser Gly Tyr Ala Phe Ser Ser His  
20 25 30

Trp Met Asn Trp Val Lys Gln Arg Pro Gly Lys Gly Leu Glu Trp Ile  
35 40 45

Gly Arg Ile Tyr Pro Gly Asp Gly Asp Ser Leu Tyr Asn Gly Lys Phe  
50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr Thr Val Tyr  
65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys  
85 90 95

Ala Arg Thr Arg Ala Tyr Gly Pro Ala Trp Phe Ala Tyr Trp Gly Gln  
100 105 110

Gly Thr Leu Val Thr Val Ser Ala  
115 120

<210> 4  
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<212> DNA  
<213> Homo Sapiens

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tccctgccaaag cttctggcta cgcattcagt agccactgga tgaactgggt gaagcagagg 120  
cctggaaagg gtcttgagtg gattggacgg atttatcctg gagatggaga ttctctctac 180  
aatgggaagt tcaagggcaa ggccacactg actgcagaca aatcctccac cacagtctac 240  
atgcagctca gcagcctgac atctgaggac tctgcggtct acttctgtgc aagaacgagg 300  
gcttatggtc ccgcctggtt tgcttactgg ggccaaggga ctctggtcac tgtctctgca 360

<210> 5  
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<212> PRT  
<213> Homo Sapiens

<400> 5

Ser His Trp Met Asn

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5

<210> 6  
<211> 17  
<212> PRT  
<213> Homo Sapiens

<400> 6

Arg Ile Tyr Pro Gly Asp Gly Asp Ser Leu Tyr Asn Gly Lys Phe Lys  
1 5 10 15

Gly

<210> 7  
<211> 11  
<212> PRT  
<213> Homo Sapiens

<400> 7

Thr Arg Ala Tyr Gly Pro Ala Trp Phe Ala Tyr  
1 5 10

<210> 8  
<211> 112  
<212> PRT  
<213> Homo Sapiens

<400> 8

Asp Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ala Met Ser Val Gly  
1 5 10 15

Gln Lys Val Thr Leu Ser Cys Arg Ser Ser Gln Ser Leu Leu Asp Ser  
20 25 30

Asn Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Lys Leu Leu Val Tyr Ala Ser Ile Arg Glu Ser Gly Val Pro  
50 55 60

Asp Arg Phe Ile Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
65 70 75 80

Thr Ser Val Gln Ala Glu Asp Leu Ala Asp Tyr Phe Cys Gln Gln His  
85 90 95

Tyr Ser Thr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys  
100 105 110

<210> 9  
<211> 339  
<212> DNA  
<213> Homo Sapiens

<400> 9  
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ttgagctgca ggtccagtca gagtctttta gatagtaaca atcaaaagaa ctatttggcc 120  
tggtaccagc agaaaccggg acagtctcct aaacttctgg tatacyttgc atctattagg 180  
gaatctgggg tccctgatcg cttcatagge agtggatctg ggacagattt cactcttacc 240  
atcaccagtg tgcaggctga agacctggca gattatttct gtcagcaaca ttatagcact 300  
cccctcacgt tcggtgctgg gaccaagctg gagctgaaa 339

<210> 10  
<211> 17  
<212> PRT  
<213> Homo Sapiens

<400> 10

Arg Ser Ser Gln Ser Leu Leu Asp Ser Asn Asn Gln Lys Asn Tyr Leu  
1 5 10 15

Ala

<210> 11  
<211> 6  
<212> PRT  
<213> Homo Sapiens

<400> 11

Ala Ser Ile Arg Glu Ser  
1 5

<210> 12  
<211> 9  
<212> PRT  
<213> Homo Sapiens

<400> 12

Gln Gln His Tyr Ser Thr Pro Leu Thr  
1 5

<210> 13  
 <211> 387  
 <212> PRT  
 <213> Mus Musculus

<400> 13

Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Ser  
 1 5 10 15

Val His Ser Gly Lys Lys Glu Lys Pro Glu Lys Lys Val Lys Lys Ser  
 20 25 30

Asp Cys Gly Glu Trp Gln Trp Ser Val Cys Val Pro Thr Ser Gly Asp  
 35 40 45

Cys Gly Leu Gly Thr Arg Glu Gly Thr Arg Thr Gly Ala Glu Cys Lys  
 50 55 60

Gln Thr Met Lys Thr Gln Arg Cys Lys Ile Pro Cys Asn Trp Lys Lys  
 65 70 75 80

Gln Phe Gly Ala Glu Cys Lys Tyr Gln Phe Gln Ala Trp Gly Glu Cys  
 85 90 95

Asp Leu Asn Thr Ala Leu Lys Thr Arg Thr Gly Ser Leu Lys Arg Ala  
 100 105 110

Leu His Asn Ala Asp Cys Gln Lys Thr Val Thr Ile Ser Lys Pro Cys  
 115 120 125

Gly Lys Leu Thr Lys Pro Lys Pro Gln Ala Glu Ser Lys Lys Lys Lys  
 130 135 140

Lys Glu Gly Lys Lys Gln Glu Lys Met Leu Asp Thr Gly Gly Gly Glu  
 145 150 155 160

Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro Pro Ala Ala  
 165 170 175

Ala Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met  
 180 185 190

Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His  
 195 200 205

Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly Val Glu Val

210	215	220
His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe 225 230 235 240		
Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp Leu Asn Gly 245 250 255		
Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro Ala Pro Ile 260 265 270		
Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val 275 280 285		
Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn Gln Val Ser 290 295 300		
Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu 305 310 315 320		
Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro 325 330 335		
Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val 340 345 350		
Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met 355 360 365		
His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser 370 375 380		

Pro Gly Lys  
385

<210> 14  
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 <212> PRT  
 <213> Homo Sapiens

<400> 14

Met Gln Ala Gln Gln Tyr Gln Gln Gln Arg Arg Lys Phe Ala Ala Ala
1 5 10 15

Phe Leu Ala Phe Ile Phe Ile Leu Ala Ala Val Asp Thr Ala Glu Ala
20 25 30

Gly Lys Lys Glu Lys Pro Glu Lys Lys Val Lys Lys Ser Asp Cys Gly  
35 40 45

Glu Trp Gln Trp Ser Val Cys Val Pro Thr Ser Gly Asp Cys Gly Leu  
50 55 60

Gly Thr Arg Glu Gly Thr Arg Thr Gly Ala Glu Cys Lys Gln Thr Met  
65 70 75 80

Lys Thr Gln Arg Cys Lys Ile Pro Cys Asn Trp Lys Lys Gln Phe Gly  
85 90 95

Ala Glu Cys Lys Tyr Gln Phe Gln Ala Trp Gly Glu Cys Asp Leu Asn  
100 105 110

Thr Ala Leu Lys Thr Arg Thr Gly Ser Leu Lys Arg Gln Ala Val His  
115 120 125

Ala Ala His Ala Glu Ile Asn Glu Cys Gln Lys Thr Val Thr Ile Ser  
130 135 140

Lys Pro Cys Gly Lys Leu Thr Lys Pro Lys Pro Gln Ala Glu Ser Lys  
145 150 155 160

Lys Lys Lys Lys Glu Gly Lys Lys Gln Glu Lys Met Leu Asp  
165 170

<210> 15

<211> 11

<212> PRT

<213> Homo Sapiens

<400> 15

Gln Ala Val His Ala Ala His Ala Glu Ile Asn  
1 5 10